

Review Worksheet

for Statistics and Probability Test

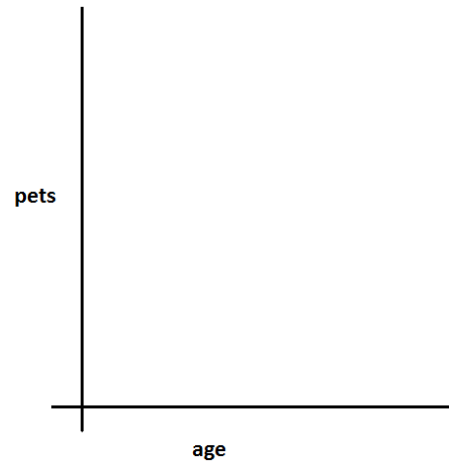
Name: _____

1) $10!/6!(10-6)!$

2) $6!/6-2!$

3) Create a scatter plot for this data:

AGE	PETS
13	5
12	3
15	4
14	3



4) Find the mean median and mode from the following numbers: 5 10 15 20 25 30 35 40 45 50

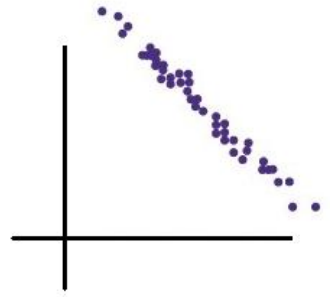
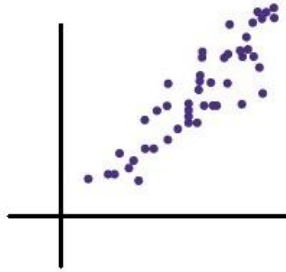
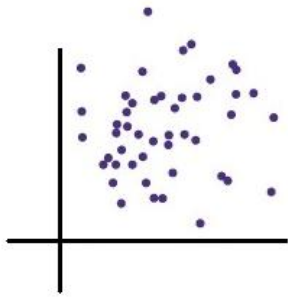
5) How many possible outcomes are there for flipping a coin 15 times?

6) Identify the mean, median and mode for this set of numbers: 7, 7, 7, 12, 13, 15, 16, 17, 17, 18

- 7) Make a box and whisker plot: 16, 21, 33, 14, 11, 18, 41, 19, 21
- 8) Make a histogram for these numbers: 1, 1, 2, 5, 6, 6, 7, 8, 8, 10
- 9) Make a Whisker and Box Plot for these numbers: 2, 3, 4, 4, 6, 7, 9, 9, 11, 12, 13, 13
- 10) There are 15 marbles in a bag, 5 blue 5 green and 5 red. You have drawn three red out of the bag what is the probability you will get another red.
- 11) There are 16 children in a class, and the teacher wants four groups, each having 4 kids in the group. How many group combinations are there?
- 12) There are nine dogs and six kids. How many ways can the kids and dogs be paired together? (in groups of 2)
- 13) There are seven cars, and the little boy wants to play with two at a time. How many different cars can we have together, without playing with the same groups of cars?
- 14) There are seven cows. How many different ways are there to line up the first five cows?

- 15) There are six names in the hat, and you must draw two. How many combinations of names can you draw?
- 16) There is a deck with 52 cards, and you draw a black card. Then you take another card. What is the probability that you will draw a black card on your second draw?
- 17) There were 20 students at the zoo. Eight had tennis shoes four had flip-flops five had rain boots and three had slip ons. The teacher picked on student to be the leader, what is the probability that the student will be wearing tennis shoes?
- 18) Twenty-one people took a survey to see what color they liked best out of pink, blue, or green. Six liked pink eight liked blue and seven liked green. Make a pie chart for this data.
- 19) What is the mode for the following numbers? 7, 8, 8, 6, 5, 5, 4, 5, 7, 5, 8, 5, 9
- 20) What is the probability you will roll an even number on a die two times?

21) What type of correlation does each graph show?



22) You have four sandwich choices, 3 chip choices, and five drink choices. Use the fundamental counting principle to find how many possible choices you have if you have one of each item.

23) You have six raincoats and seven pants. How many combinations are possible?

24) You must create a six-digit code from the numbers 0-9. It cannot begin with two or four and seven cannot be either the first or the second number. How many codes can you create?

25) You roll a dice and flip a coin. Are these events dependant or independent?